

The City of North Canton 145 North Main Street North Canton, Ohio 44720

David Held, Mayor Michael Grimes, Director of Administration

Drinking Water Plant 7300 Freedom Avenue NW North Canton, Ohio 44720 Mark Leichtamer, Superintendent

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City of North Canton Contact Phone Numbers:								
Water treatment information or water	24 hours a day, 7 days a week							
quality problem: North Canton Drinking Water Plant	330-499-6473							
Billing related questions or water	Monday thru Friday 8am to 4pm							
service on/off:	330-499-4801							
North Canton Utilities Department								
Backflow assemblies or inspections:	Monday thru Friday 6:30 am to							
North Canton Backflow Department	3:00 pm							
	330-499-3801							
Main breaks, meter repair and water	Monday thru Friday 7:00 am to							
taps:	4:00 pm							
City of North Canton Service Center,	330-499-1528							
Distribution								
Water main breaks (after hours):	24 hours a day, 7 days a week							
North Canton Police Department, Non-	330-499-5911							
emergency								

The City of North Canton public water system identification number (PWSID) OH-7604312, which currently serves a population of 17,404 residents. There are currently 7,825 residential accounts and 1,278 commercial accounts for a total of 9,103 water accounts. The City of North Canton has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report are general health information, water quality test results, how to participate in decisions concerning your drinking water, and water system contacts.

Source Water Information (141.453)(b)

The City of North Canton receives its drinking water from nine ground water wells in four different locations. The City of North Canton averaged 2.76 million gallons of water per day (MGD) and pumped a total of 1.008 billion gallons for the year of 2013. The North Canton Drinking Water Plant also has an emergency connection with the Canton Water System and Aqua Ohio Water System of Massillon.

What are sources of contamination to drinking water? (141.153)(b)(1)

The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and in some cases, radioactive material; and water can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can, also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.
- Lead *see "About Your Drinking Water (141.153(d)"

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems; and FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (1-800-426-4791).

About your drinking water (141.153)(d)

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of North Canton Drinking Water Plant is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at http://www.epa.gov/safewater/lead.

Who needs to take special precautions? (141.154)

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as individuals with cancer undergoing chemotherapy, those who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

The EPA requires regular sampling to ensure drinking water safety. The City of North Canton conducted sampling for the following contaminants: bacteria, inorganics, synthetic organics, radioactive substances, and volatile organics. Samples were analyzed for different contaminants, most of which were not detected in the City of North Canton water supply. The Ohio EPA requires us to monitor for some contaminants less often than once per year because the concentrations of these contaminants do not change frequently. Consequently, some of our data, though accurate, are more than one year old.

How do I participate in decisions concerning my drinking water? (141.153)(h)(4)

Public participation and comment are encouraged at regular meetings of City Council, which meets the second and fourth Monday of each month. Call the Council office (330) 499-3986 for further information on Council meetings.

For more information on your drinking water contact Mark Leichtamer, Superintendent of the North Canton Drinking Water Plant. Mr. Leichtamer is available to answer any questions you may have about your water and is available weekdays from 7 a.m. to 4 p.m. at (330) 499-6473. You can also call the local office of the Ohio Environmental Protection Agency at (330) 963-1200 with any water questions.

HOW TO READ THIS REPORT

The City of North Canton is required to provide this annual report on drinking water quality to every North Canton water customer. The Environmental Protection Agency (EPA) requires regular sampling to ensure drinking water safety and the results of testing those samples are in this report. In addition, since it is your water system and you pay for it, we believe you should understand where the water comes from, how it is processed and transported to you, and what the city is doing to make certain the system is not only safe, but reliable.

As you read this report, please note that the chemicals listed are at detection levels. None of the levels is in violation of EPA standards. We test more frequently than required so that when we detect any elevation in levels, we can take action immediately to correct it.

WHERE YOUR WATER COMES FROM

The City of North Canton is a ground water system.

Definitions of some terms contained within this report. (141.153)(c)

First Tap or EP001: First entry point from treatment plant into the system.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Picocures Per Liter (pCi/L): Measure of radioactivity in water.

Parts per Million (ppm) or Milligrams per Liter (mg/L): units of measure for concentration of a contaminant. A part per million corresponds to one second in a little over 11.5 days.

Parts per Billion (ppb) or Micrograms per Liter (ug/L): units of measure for concentration of a contaminant. A part per billion corresponds to one second in 31.7 years.

"<" symbol: a symbol which means "less than." A result of <5 means that the lowest that could be detected was 5 and the contaminant in that was not detected.

ND

Non-detection of chemicals tested for.

NR

Not Required

\mathbf{AL}

Action Level – Requires action be taken if concentration of contaminant exceeded the **AL** level. The action could be different types of testing and require increased treatment methods.

MRDL

Maximum Residual Disinfection Level.

MRDLG

Maximum Residual Disinfection Level Goal.

RΔΔ

Running Annual Average.

LRAA

Locational Running Annual Average

Treatment Technique (TT)

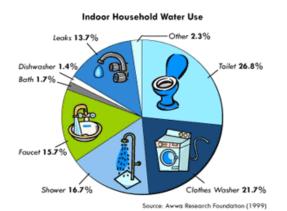
A required process intended to reduce the level of a contaminant in drinking water.

Haloacetic Acids or HAAs

Total Trihalomethanes or TTHM's

	WATER USAGE AND SAVINGS CHART FOR COMPARISON Source: City of Columbus, Ohio, 2009 CCR									
	Normal Usa	age	Conservation Usage							
	Gals Used	Method	Gal Used	Method	Savings					
Shower (10 mins)	50	Shower head running continuously	25	Shorter Showers (5 mins) OR	50%					
			25	Low flow shower head (10 min) OR	50%					
			12.5	Low flow shower head (5 min) OR	75%					
Tub Bath	36	Standard tub, full	18	Standard tub, half full	50%					
Toilet Flushing	5-7	Depends on tank size	4-6	Use a displacement bag, or milk jug in tank reservoir OR	20%					
			1.6	Replace with low flow toilet	73%					
Washing hands	5	With tap running continuously	1	Fill a standard basin	80%					
Brushing teeth	10	With tap running continuously	1	Wet brush with brief rinses	90%					
Shaving	20	With tap running continuously	1	Fill a standard basin	95%					
Washing dishes	30	With tap running continuously	10	Wash and rinse with a half filled standard sink	66%					
Dishwasher	16	Full Cycle	7	Short cycle	56%					
Washing Machine	60 Full cycle: Highest water level		27	Short cycle	55%					
Outdoor Watering	10	Per minuet; Average garden hose	Varies	Eliminate, Night watering, etc	Varies					
		Less than 1% of the worlds fresh water	er supplies are	available for human consumption						





Consumer Confidence Report Test Results

voiatile	volatile Organic Compounds Flant Tap EF-0001 (monthly average reported result)										
Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants				
Monthly 2013	Regulated PPB	No	0	80	ND	ND					
	Chloroform	No	0	Unreg	1.07	0.44 to 2.2	Disabagas fusus in desatrial				
	Bromodichloromethane PPB	No	0	Unreg	2.58	1.4 to 4.3	Discharge from industrial facilities: byproducts of drinking water chlorination				
	Dibromochloromethane PPB	No	0	Unreg	4.01	0.5 to 5.2	drinking water chlorination				
	Bromoform PPB	No	0	Unreg	2.73	1.9 to 3.5]				

VOLATILE ORGANIC COMPOUNDS Stage 2 Disinfection Byproducts Rule Distribution System (Highest LRAA reported)

Location	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants
	Regulated PPB	No	0	80	ND	ND	
DS 203	Chloroform	No	0	Unreg	2.95	<0.58 to 6.6	
DS 201	Bromodichloromethane PPB	No	0	Unreg	6.08	<0.5 to 10.1	Discharge from industrial facilities: byproducts of
DS 201	Dibromochloromethane PPB	No	0	Unreg	10.85	<0.5 to 15.3	drinking water chlorination
DS 201	Bromoform PPB	No	0	Unreg	8.03	<0.5 to 13.5	
2013							
Sample							
Date							

DISINFECTION BYPRODUCTS

TOTAL TRIHALOMETHANES

Regulated in distribution system. Highest LRAA reported

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants	
10/2/2013	T. Trihalomethanes PPB	No	0	80	27.7	4.0 to 37.8	Byproduct of drinking water chlorination	
DS-201	Sample Location	5455 Marke	et Ave					

HALOACETIC ACIDS (FIVE) (HAA5)

Regulated in distribution system. Highest LRAA reported

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants	
07/08/2013	T. HAA5 PPB	No	0	60	6.78	<6.0 to 8.9	Byproduct of drinking water chlorination	
DS-201	Sample Location	5455 Marke	et Ave					

RADIOACTIVE SUBSTANCES (PCI/L)

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants
6/13/12	Gross Alpha PCI/L	No	0	15	ND	<3	Certain minerals, which can
6/13/12	Gross Beta PCI/L	No	0	AL50	ND	<3	be naturally occurring or the
6/13/12	Radium 228 PCI/L	No	0	5	ND	<1	results of oil and gas production and mining activities; are radioactive and may emit forms of radiation knows as protons and beta radiation

RADIOACTIVE SUBSTANCES (PCI/L) NEW WELL IN OPERATION FOUR QUARTERS

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants
12/08/2010	Gross Alpha PCI/L	No	0	15	ND	ND to 9.34	
03/09/2011	Gross Alpha PCI/L	No	0	15	5.99	ND to 9.34	
06/08/2011	Gross Alpha PCI/L	No	0	15	9.34	ND to 9.34	
09/14/2011	Gross Alpha PCI/L	No	0	15	ND	ND to 9.34	
12/08/2010	Gross Beta PCI/L	No	0	AL50	ND	ND to 17.3	
03/09/2011	Gross Beta PCI/L	No	0	AL50	6.72	ND to 17.3	Certain minerals, which can be naturally
06/08/2011	Gross Beta PCI/L	No	0	AL50	17.3	ND to 17.3	occurring or the results of oil and gas
09/14/2011	Gross Beta PCI/L	No	0	AL50	ND	ND to 17.3	production and mining activities; are
12/08/2010	Radium 228 PCI/L	No	0	5	ND	ND	radioactive and may emit forms of
03/09/2011	Radium 228 PCI/L	No	0	5	ND	ND	radiation knows as protrons and beta
06/08/2011	Radium 228 PCI/L	No	0	5	ND	ND	radiation
09/14/2011	Radium 228 PCI/L	No	0	5	ND	ND	
12/08/2010	Radium 226 PCI/L	No	0	5	NR	NR	
03/09/2011	Radium 226 PCI/L	No	0	5	ND	ND	
06/08/2011	Radium 226 PCI/L	No	0	5	ND	ND	
09/14/2011	Radium 226 PCI/L	No	0	5	NR	NR	

SYNTHETIC ORGANIC CHEMICALS: Including Pesticides and Herbicides

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants
6/13/12	Alachlor PPB	No	0	2	ND	<0.20	Donaff fram harbinida
6/13/12	Atrazine PPB	No	3	3	ND	<0.20	Runoff from herbicide used
6/13/12	Simazine PPB	No	4	4	ND	<0.20	on row crops

TOTAL CHLORINE RESIDUAL

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants
Avg for	Annual Average PPM	No	4	4	0.99	0.92 to 1.13	Product of drinking water
2013							disinfection

MICRO-ORGANISMS: Total Coliforms (Including fecal coliform and E. Coli)

Sample Date	Contaminant (Units)	Violation	MCL	Results	Req Test	Completed Test	Typical Source Contaminants
2012	Total Coliforms P/N	No	TT4/TT5	ND	25 per mo	29 per mo	Not a health threat in itself.
							It is used to indicate whether
							other potentially harmful
							bacteria may be present.
							Coliforms are naturally
							present in the environment
							as well as feces, fecal
							coliforms, and E. Coli,
							coming from human and
							animal fecal waste.

INORGANIC SUBSTANCES

Sample Date	Contaminant (Units)	Violation	MCLG	MCL	Results	Detection Range	Typical Source Contaminants
07/10/2013	Fluoride PPM	NO	4	4	0.91	0.20 >	Erosion of natural deposits;
2013	Fluoride PPM	NO	4	4	1.02	0.96 to 1.06/month	water additive that
							promotes strong teeth
2011	Lead 30 Samples PPB	NO	0	15	None > AL	ND to 6.5	Corrosion of household
2011	Copper 30 Samples PPB	NO	0	1300	None > AL	ND to 34	plumbing systems and
							erosion of natural deposits
07/10/2013	Nitrate, Nitrate-Nitrite PPM	NO	10	10	0.24	< 0.10 to 0.24	Animal waste and
07/10/2013	Nitrite PPM	NO	10	10	ND	< 0.10	agricultural uses. May be
							naturally occurring
07/10/2013	Arsenic Total PPB	NO	0	10	ND	< 0.6	Erosion of natural deposits;
							runoff from orchards, glass
							and electronics production

							waste
07/10/2013	Antimony Total PPB	NO	6	6	ND	< 0.8	A naturally occurring
							trivalent or pentavalent
							metalloid used as a
							constituent of metal in the
							manufacture of flame
							retardants, ceramics, glass,
							pesticides, and tin-antimony
							solder, as well as in medicine
07/10/2013	Beryllium Total PPB	NO	4	4	ND	< 0.2	An alkaline-earth metal. In
							nature, beryllium is found in
							the ores of beryl. Beryllium
							has various industrious uses.
07/10/2013	Barium Total PPB	NO	2000	2000	29.0	< 100	Discharge of drilling waste;
							discharge from metal
							refineries; erosion of natural
							deposits
07/10/2013	Cadmium Total PPB	NO	5	5	ND	< 0.2	Corrosion of galvanized
							pipes; erosion of natural
							deposits; discharge from
							metal refineries; runoff from
							waste batteries deposits and
							paints
07/10/2013	Chromium Total PPB	NO	100	100	ND	< 1.0	Discharge from steel and
							pulp mills; erosion of natural
							deposits
07/10/2013	Cyanide Total PPB	NO	200	200	ND	< 10	Discharge from steel/metal
							factories; discharge from
							plastic and fertilizer factories
07/10/2013	Mercury Total PPB	NO	2	2	ND	< 0.2	Erosion of natural deposits;
							discharge from refineries
							and factories; runoff from
2=1:21=2:2							landfills and crop lands
07/10/2013	Nickel Total PPB	NO	100	100	ND	< 1.0	A metallic element used in
							alloys; in electroplated
							protective coatings; in
							alkaline storage batteries,
07/40/2042	The U. a. Teled DDD	NO	2	2	NB	. 0. 20	and as a catalyst
07/10/2013	Thallium Total PBB	NO	2	2	ND	< 0.30	A metallic element with
							miscellaneous industrial
							uses, including in mercury
							alloys, rodenticides, and
							photoelectric applications. Thallium is regulated by the
							US Environmental Protection
							Agency. See also rodenticide
07/10/2012	Selenium Total PBB	NO	50	50	ND	< 1.0	Discharge from petroleum
07/10/2013	Selemum Total PBB	NU	50	30	ND	< 1.0	refineries; erosion of natural
							deposits; discharge from
							mines
	<u>l</u>	1	<u> </u>				miles